

SS316L NEEDLE VALVE 6000 PSI OD X OD

High Pressure Needle Valve · Tube x Tube Connection · T Handle · PTFE Gland Packing

BRAND: SWLOK

SKU: SW-0068

6000 PSI

TUBE X TUBE

T HANDLE



FIG. 1 | SS316L NEEDLE VALVE 6000 PSI OD X OD

PRODUCT OVERVIEW

The OD type needle valve gives fine, repeatable flow control at pressures up to 6000 psi. A tapered stem advances slowly into the seat, so a large movement of the handle produces a small change in flow, which is what metering, throttling and slow bleed duties need and what a ball valve cannot do.

Both ends are compression tube fittings, so the valve installs into a tubing run without threading or welding. The stem runs in a PTFE packed gland with a separate gland retainer and check nut, so the packing can be adjusted in service, and a dust cap keeps the thread clean between operations.

Product type	Needle valve, rising stem, metering
End connection	Compression tube fitting, tube x tube
Body material	SS 316L
Working pressure	6000 psi
Gland packing	PTFE
Size range	1/4" to 1", or 6 mm to 12 mm tube

TECHNICAL SPECIFICATION

Valve body	SS 316L	Working pressure	6000 psi
Gland body	SS 316L	Gland retainer and check nut	SS 304
Stem	SS 316L	Nut and ferrule set	SS 316L
Trim	SS 316L	Dust cap	Polyethylene
Gland packing	PTFE	Operation	T handle, rising stem, low torque
Handle	SS 304	Compliance	Conforms to NACE MR 0175



PRODUCT DATA SHEET

SS316L NEEDLE VALVE 6000 PSI OD X OD
Ref. SW-0068 | Rev. 01

BILL OF MATERIALS

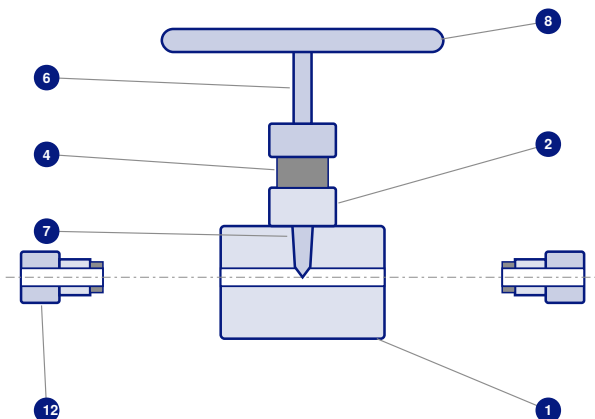


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS
NUMBERED PER THE BILL OF MATERIALS

#	COMPONENT	MATERIAL
1	Valve body	SS 316L
2	Gland body	SS 316L
3	Gland retainer	SS 304
4	Gland packing (2 nos.)	PTFE
5	Check nut	SS 304
6	Stem	SS 316L
7	Trim	SS 316L
8	Handle	SS 304
9	Allen bolt	SS 304
10	Lock pin	SS 304
11	Dust cap	Polyethylene
12	Nut and ferrule set (2 nos.)	SS 316L

The trim is the tapered needle that meters the flow and is a separate part from the stem, so it can be changed to alter the flow characteristic. Regulating and non regulating trims are available on request.

DIMENSIONS AND WEIGHTS

PART NUMBER	TUBE SIZE	SERIES	L LENGTH (MM)	S BODY (MM)	H HEIGHT (MM)
SW-HP-H-CTNV-2B-DN8	1/4"	Inch	54.0	22.0	92.0
SW-HP-H-CTNV-2B-DN10	3/8"	Inch	70.0	25.0	92.0
SW-HP-H-CTNV-2B-DN15	1/2"	Inch	75.0	28.0	76.0
SW-HP-H-CTNV-2B-DN20	3/4"	Inch	85.0	36.0	110.0
SW-HP-H-CTNV-2B-DN25	1"	Inch	102.0	45.5	116.0
SW-HP-H-CTNV-2B	6 mm	Metric	54.0	22.0	92.0
SW-HP-H-CTNV-2B	8 mm	Metric	70.0	25.0	92.0
SW-HP-H-CTNV-2B	10 mm	Metric	75.0	28.0	96.0
SW-HP-H-CTNV-2B	12 mm	Metric	85.0	36.0	110.0

L = overall length across the tube ends, S = across flats on the body, H = maximum height with the stem fully open. The height for the 1/2 inch inch series reads 76 mm in the catalogue where the 3/8 inch size reads 92 mm and the equivalent 10 mm metric size reads 96 mm, so confirm that figure before quoting the 1/2 inch valve. Dimensions are for reference only and are subject to change without notice.



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ORDERING INFORMATION

FIELD	OPTIONS
Product description	SS316L Needle Valve 6000 PSI OD x OD
SKU	SW-0068
Tube size	1/4", 3/8", 1/2", 3/4", 1", or 6, 8, 10, 12 mm
Body material	SS 316L
Working pressure	6000 psi
Trim	Regulating or non regulating, on request
Order example	SW-0068 / SW-HP-H-CTNV-2B-DN15 / 1/2" OD / SS316L

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

COMPLIANCE AND QUALITY

- Body and trim in SS 316L
- PTFE gland packing, adjustable in service
- Rated to 6000 psi
- Compression tube ends, no threading or welding required
- Conforms to NACE MR 0175
- Material certificate available on request

INSTALLATION

- Cut the tube square and deburr it inside and out before assembly
- Insert the tube fully to the shoulder before tightening the nut
- Tighten the nut by the number of turns given by the fitting maker, not by feel
- Support the tube run so the valve carries no bending load
- Leave headroom above the valve for the rising stem and T handle

TYPICAL APPLICATIONS

- Metering and throttling on instrument lines
- Gauge and transmitter isolation and bleed
- Sample and analyser systems
- Hydraulic and pneumatic control lines
- Oil and gas and chemical process plant
- Test and calibration rigs

OPERATION AND MAINTENANCE

- Close by hand only, a needle seat is damaged by over tightening
- Do not use the handle as a lever with a bar or extension
- Adjust the gland check nut lightly if weeping appears at the stem
- Refit the dust cap after operation to keep the stem thread clean

COMPANY

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